

Abstract

[0036] An optical arrangement with telecentric beam region for imaging objects, preferably a microscope, comprises in a main beam path at least one infinity-imaging objective 3 and at least one eyepiece 5 with an eyepiece intermediate image plane 6 and a tube lens 4 of suitable focal length which is arranged between the latter at a fixed distance from the objective 3. At least one optical element in the form of a beam splitter module 25; 26 or beam splitters 7; 8 for laterally splitting off at least a first partial beam path is provided in the space between the objective 3 and the tube lens 4 in which the telecentric beam path is located. A tube lens 9; 12, 13 is located at a suitable distance from the objective 3 in each of these first partial beam paths. At least a second partial beam path is branched off from at least one of these first partial beam paths and a tube lens 15; 20; 23; 24; 28; 29 is located at a suitable distance from the objective 3 in each of these second partial beam paths. The tube lenses arranged in the individual partial beam paths have the same focal length or different focal lengths.